

Author Index Volume 31

- Acampora, D., see Stornaiuolo, A. (31) 119
Aiken, J.M., see Seshagiri, P.B. (31) 161
Ait-Ahmed, O., Thomas-Cavallin, M., Joblet, C. and Capri, M.
Expression in the central nervous system of a subset of the
yema maternally acting genes during *Drosophila* embryo-
genesis. Post-embryonic expression extends to imaginal
discs and spermatocytes (31) 53
Araki, M. and Tokunaga, F.
Norepinephrine suppresses both photoreceptor and
neuron-like properties expressed by cultured rat pineal
glands (31) 129

Bavister, B.D., see Seshagiri, P.B. (31) 161
Ben-Shaul, Y., see Hekmati, M. (31) 207
Berthier, F., see Tourmente, S. (31) 137
Boncinelli, E., see Stornaiuolo, A. (31) 119
Bonnec, G., see Charbonneau, M. (31) 197
Boujard, D., see Charbonneau, M. (31) 197
Buehr, M., see McLaren, A. (31) 185

Capri, M., see Ait-Ahmed, O. (31) 53
Charbonneau, M., Bonniec, G. and Boujard, D.
Patterns of protein synthesis during *Xenopus* oocyte
maturation differ according to the type of stimulation (31)
197

Dean, W.L. and Schultz, G.A.
Relocalization of small ribonucleoprotein particles
(snRNPs) during the first cell cycle of mouse embryo
development is independent of RNA synthesis, DNA
synthesis and cytokinesis (31) 43
De Pomerai, D.I., see Karim, S.A.M. (31) 169
D'Esposito, M., see Stornaiuolo, A. (31) 119
Dimitriadis, G.J., see Souliotis, V.L. (31) 23
Dominguez, L., see Muniesa, P. (31) 105

Faiella, A., see Stornaiuolo, A. (31) 119
Fazel, A.R., see Honda, T. (31) 31

Habata, Y., see Ishikawa, T.-o. (31) 177
Hasegawa, M., see Tasaka, M. (31) 1
Hekmati, M., Polak-Charcon, S. and Ben-Shaul, Y.
A morphological study of a human adenocarcinoma cell
line (HT29) differentiating in culture. Similarities to intesti-
nal embryonic development (31) 207
Honda, T., Schulte, B.A., Fazel, A.R. and Spicer, S.S.
Lectin binding beneath the epithelium and in smooth muscle
cells in the developing bronchial tree (31) 31

Ishikawa, T.-o., Urushihara, H., Habata, Y. and Yanagisawa,
K.
Affinity purification of a 70K protein, a membrane protein
relevant to sexual cell fusion in *Dictyostelium discoideum*
(31) 177
Iwabuchi, M., see Tasaka, M. (31) 1

Joblet, C., see Ait-Ahmed, O. (31) 53

Karim, S.A.M. and De Pomerai, D.I.
Stimulatory effects of retinal extract and fibroblast growth
factor on lentoidogenesis in cultures of chick embryo neu-
roretinal cells (31) 169
Komamine, A., see Sugiyama, M. (31) 77

McLaren, A. and Buehr, M.
Development of mouse germ cells in cultures of fetal gonads
(31) 185
Migliaccio, E., see Stornaiuolo, A. (31) 119
Mizuno, T. and Yasugi, S.
Susceptibility of epithelia to directive influences of
mesenchymes during organogenesis: Uncoupling of mor-
phogenesis and cytodifferentiation (31) 151
Morelli, F., see Stornaiuolo, A. (31) 119
Muniesa, P. and Dominguez, L.
A morphological study of primordial germ cells at pregastr-
ular stages in the chick embryo (31) 105

Nigro, V., see Stornaiuolo, A. (31) 119

Ozaki, T., see Tasaka, M. (31) 1

Pannese, M., see Stornaiuolo, A. (31) 119
Patrinou-Georgoula, M., see Souliotis, V.L. (31) 23
Polak-Charcon, S., see Hekmati, M. (31) 207

Rambaldi, M., see Stornaiuolo, A. (31) 119
Renaud, M., see Tourmente, S. (31) 137

Savre-Train, I., see Tourmente, S. (31) 137
Schulte, B.A., see Honda, T. (31) 31
Schultz, G.A., see Dean, W.L. (31) 43
Seshagiri, P.B., Bavister, B.D., Williamson, J.L. and Aiken,
J.M.
Qualitative comparison of protein production at different
stages of hamster preimplantation embryo development
(31) 161
Simeone, A., see Stornaiuolo, A. (31) 119
Smith, R.C.
Synthesis of a 180 kDa protein is a molecular marker of
Xenopus oocyte meiotic maturation (31) 97
Somogyi, H., see Zimmermann, B. (31) 11

- Souliotis, V.L., Patrino-Georgoula, M., Zongza, V. and Dimitriadis, G.J.
The urea-soluble low molecular weight cuticle proteins from the different developmental stages of *Dacus oleae* (31) 23
- Spicer, S.S., see Honda, T. (31) 31
- Stornaiuolo, A., Acampora, D., Pannese, M., D'Esposito, M., Morelli, F., Migliaccio, E., Rambaldi, M., Faiella, A., Nigro, V., Simeone, A. and Boncinelli, E.
Human HOX genes are differentially activated by retinoic acid in embryonal carcinoma cells according to their position within the four loci (31) 119
- Sugiyama, M. and Komamine, A.
Transdifferentiation of quiescent parenchymatous cells into tracheary elements (31) 77
- Takemoto, K., Takeuchi, I. and Tasaka, M.
cAMP regulation of the expression of prespore-specific genes, SP96 and Dp87, in disaggregated slug cells of *Dictyostelium discoideum* (31) 89
- Takeuchi, I., see Takemoto, K. (31) 89
- Takeuchi, I., see Tasaka, M. (31) 1
- Tasaka, M., Hasegawa, M., Ozaki, T., Iwabuchi, M. and Takeuchi, I.
Isolation and characterization of spore coat protein (sp96) gene of *Dictyostelium discoideum* (31) 1
- Tasaka, M., see Takemoto, K. (31) 89
- Thomas-Cavallin, M., see Ait-Ahmed, O. (31) 53
- Tokunaga, F., see Araki, M. (31) 129
- Tourmente, S., Savre-Train, I., Berthier, F. and Renaud, M.
Expression of six mitochondrial genes during *Drosophila* oogenesis: analysis by in situ hybridization (31) 137
- Urushihara, H., see Ishikawa, T.-o. (31) 177
- Wachtel, H.C., see Zimmermann, B. (31) 11
- Williamson, J.L., see Seshagiri, P.B. (31) 161
- Yanagisawa, K., see Ishikawa, T.-o. (31) 177
- Yasugi, S., see Mizuno, T. (31) 151
- Zimmermann, B., Wachtel, H.C. and Somogyi, H.
Endochondral mineralization in cartilage organoid culture (31) 11
- Zongza, V., see Souliotis, V.L. (31) 23

Subject Index Volume 31

Affinity chromatography

Sexual cell fusion; Membrane protein; *Dictyostelium discoideum* (Ishikawa, T.-o. (31) 177)

cAMP

Dictyostelium discoideum; Prespore gene; Transcription; mRNA stability (Takemoto, K. (31) 89)

Annulate lamellae

Primordial germ cell; Chick blastoderm; Germ line origin; Nuage (Muniesa, P. (31) 105)

Basement membrane

Lectin histochemistry; Lung; Rat; Embryo; Immunohistochemistry; Smooth muscle (Honda, T. (31) 31)

Cadherin

CAM; Uvomorulin; Sea urchin embryo (Aït-Ahmed, O. (31) 67)

CAM

Cadherin; Uvomorulin; Sea urchin embryo (Aït-Ahmed, O. (31) 67)

Cartilage

Endochondral mineralization; In vitro; Organoid culture (Zimmermann, B. (31) 11)

Cell culture

Pineal gland; Opsin; Serotonin; Norepinephrine; Rat (Araki, M. (31) 129)

Cell differentiation

Drosophila; *yema* gene; Maternal expression; Neurogenesis; Cell proliferation (Aït-Ahmed, O. (31) 53)

HT29 cell; Tight junction; Embryo; Colon; Intra- and Intercellular lumina (Hekmati, M. (31) 207)

Cell proliferation

Drosophila; *yema* gene; Maternal expression; Neurogenesis; Cell differentiation (Aït-Ahmed, O. (31) 53)

Cell stimulation

Protein synthesis; Oocyte maturation; *Xenopus laevis*; Meiosis reinitiation (Charbonneau, M. (31) 197)

Chick blastoderm

Primordial germ cell; Germ line origin; Nuage; Annulate lamellae (Muniesa, P. (31) 105)

Colon

HT29 cell; Cell differentiation; Tight junction; Embryo; Intra- and Intercellular lumina (Hekmati, M. (31) 207)

δ -Crystallin

Retina; Lens; Transdifferentiation; FGF (Karim, S.A.M. (31) 169)

Cuticle protein

Urea; Low molecular weight protein; Development; *Dacus oleae* (Souliotis, V.L. (31) 23)

Cytokinesis: DNA replication

Mouse embryo; snRNP; Embryonic gene transcription (Dean, W.L. (31) 43)

Dacus oleae

Urea; Cuticle protein; Low molecular weight protein; Development (Souliotis, V.L. (31) 23)

Development

Urea; Cuticle protein; Low molecular weight protein; *Dacus oleae* (Souliotis, V.L. (31) 23)

Dictyostelium

Spore coat protein gene; sp96 (Tasaka, M. (31) 1)

Dictyostelium discoideum

Prespore gene; cAMP; Transcription; mRNA stability (Takemoto, K. (31) 89)

Sexual cell fusion; Membrane protein; Affinity chromatography (Ishikawa, T.-o. (31) 177)

Drosophila

yema gene; Maternal expression; Neurogenesis; Cell proliferation; Cell differentiation (Aït-Ahmed, O. (31) 53)

Drosophila oogenesis

Mitochondrial genes specific expression (Tourmente, S. (31) 137)

Embryo

Basement membrane; Lectin histochemistry; Lung; Rat; Immunohistochemistry; Smooth muscle (Honda, T. (31) 31)

HT29 cell; Cell differentiation; Tight junction; Colon; Intra- and Intercellular lumina (Hekmati, M. (31) 207)

Embryo development

Protein profile; Preimplantation embryo (hamster); [³⁵S]-Methionine effect (Seshagiri, P.B. (31) 161)

Embryonal carcinoma cell

HOX gene; Retinoic acid; Loci position; Human (Stornaiuolo, A. (31) 119)

Embryonic gene transcription

Mouse embryo; snRNP; Cytokinesis; DNA replication (Dean, W.L. (31) 43)

Endochondral mineralization

Cartilage; In vitro; Organoid culture (Zimmermann, B. (31) 11)

Epithelium

Organogenesis; Induction; Morphogenesis; Mesenchyme (Mizuno, T. (31) 151)

FGF

Retina; Lens; Transdifferentiation; δ -Crystallin (Karim, S.A.M. (31) 169)

Germ cell

Gonadal ridge; Meiosis; Oocyte; Ovary; Testis (McLaren, A. (31) 185)

Germ line origin

Primordial germ cell; Chick blastoderm; Nuage; Annulate lamellae (Muniesa, P. (31) 105)

Gonadal ridge

Meiosis; Germ cell; Oocyte; Ovary; Testis (McLaren, A. (31) 185)

HOX gene

Retinoic acid; Embryonal carcinoma cell; Loci position; Human (Stornaiuolo, A. (31) 119)

HT29 cell

Cell differentiation; Tight junction; Embryo; Colon; Intra- and Intercellular lumina (Hekmati, M. (31) 207)

Human

HOX gene; Retinoic acid; Embryonal carcinoma cell; Loci position (Stornaiuolo, A. (31) 119)

Immunohistochemistry

Basement membrane; Lectin histochemistry; Lung; Rat; Embryo; Smooth muscle (Honda, T. (31) 31)

Induction

Organogenesis; Morphogenesis; Epithelium; Mesenchyme (Mizuno, T. (31) 151)

Intra- and Intercellular lumina

HT29 cell; Cell differentiation; Tight junction; Embryo; Colon (Hekmati, M. (31) 207)

In vitro

Endochondral mineralization; Cartilage; Organoid culture (Zimmermann, B. (31) 11)

Lectin histochemistry

Basement membrane; Lung; Rat; Embryo; Immunohistochemistry; Smooth muscle (Honda, T. (31) 31)

Lens

Retina; Transdifferentiation; δ -Crystallin; FGF (Karim, S.A.M. (31) 169)

Loci position

HOX gene; Retinoic acid; Embryonal carcinoma cell; Human (Stornaiuolo, A. (31) 119)

Low molecular weight protein

Urea; Cuticle protein; Development; *Dacus oleae* (Souliotis, V.L. (31) 23)

Lung

Basement membrane; Lectin histochemistry; Rat; Embryo; Immunohistochemistry; Smooth muscle (Honda, T. (31) 31)

Maternal expression

Drosophila; *yema* gene; Neurogenesis; Cell proliferation; Cell differentiation (Ait-Ahmed, O. (31) 53)

Meiosis

Gonadal ridge; Germ cell; Oocyte; Ovary; Testis (McLaren, A. (31) 185)

Meiosis reinitiation

Protein synthesis; Oocyte maturation; Cell stimulation; *Xenopus laevis* (Charbonneau, M. (31) 197)

Membrane protein

Sexual cell fusion; Affinity chromatography; *Dictyostelium discoideum* (Ishikawa, T.-o. (31) 177)

Mesenchyme

Organogenesis; Induction; Morphogenesis; Epithelium (Mizuno, T. (31) 151)

Mitochondrial genes specific expression

Drosophila oogenesis (Tourmente, S. (31) 137)

Morphogenesis

Organogenesis; Induction; Epithelium; Mesenchyme (Mizuno, T. (31) 151)

Mouse embryo

snRNP; Embryonic gene transcription; Cytokinesis: DNA replication (Dean, W.L. (31) 43)

Neurogenesis

Drosophila; *yema* gene; Maternal expression; Cell proliferation; Cell differentiation (Ait-Ahmed, O. (31) 53)

Norepinephrine

Pineal gland; Opsin; Serotonin; Cell culture; Rat (Araki, M. (31) 129)

Nuage

Primordial germ cell; Chick blastoderm; Germ line origin; Annulate lamellae (Muniesa, P. (31) 105)

Oocyte

Gonadal ridge; Meiosis; Germ cell; Ovary; Testis (McLaren, A. (31) 185)

Oocyte maturation

Xenopus laevis; Protein synthesis; Translational control (Smith, R.C. (31) 97)

Protein synthesis; Cell stimulation; *Xenopus laevis*; Meiosis reinitiation (Charbonneau, M. (31) 197)

Opsin

Pineal gland; Serotonin; Norepinephrine; Cell culture; Rat (Araki, M. (31) 129)

Organogenesis

Induction; Morphogenesis; Epithelium; Mesenchyme (Mizuno, T. (31) 151)

Organoid culture

Endochondral mineralization; Cartilage; In vitro (Zimmermann, B. (31) 11)

Ovary

Gonadal ridge; Meiosis; Germ cell; Oocyte; Testis (McLaren, A. (31) 185)

Pineal gland

Opsin; Serotonin; Norepinephrine; Cell culture; Rat (Araki, M. (31) 129)

Preimplantation embryo (hamster)

Protein profile; [³⁵S]Methionine effect; Embryo development (Seshagiri, P.B. (31) 161)

Prespore gene

Dictyostelium discoideum; cAMP; Transcription; mRNA stability (Takemoto, K. (31) 89)

Primordial germ cell

Chick blastoderm; Germ line origin; Nuage; Annulate lamellae (Muniesa, P. (31) 105)

Protein profile

Preimplantation embryo (hamster); [³⁵S]Methionine effect; Embryo development (Seshagiri, P.B. (31) 161)

Protein synthesis

Xenopus laevis; Oocyte maturation; Translational control (Smith, R.C. (31) 97)

Oocyte maturation; Cell stimulation; *Xenopus laevis*; Meiosis reinitiation (Charbonneau, M. (31) 197)

Rat

Basement membrane; Lectin histochemistry; Lung; Embryo; Immunohistochemistry; Smooth muscle (Honda, T. (31) 31)

Pineal gland; Opsin; Serotonin; Norepinephrine; Cell culture (Araki, M. (31) 129)

Retina

Lens; Transdifferentiation; δ -Crystallin; FGF (Karim, S.A.M. (31) 169)

Retinoic acid

HOX gene; Embryonal carcinoma cell; Loci position; Human (Stornaiuolo, A. (31) 119)

mRNA stability

Dictyostelium discoideum; Prespore gene; cAMP; Transcription (Takemoto, K. (31) 89)

snRNP

Mouse embryo; Embryonic gene transcription; Cytokinesis; DNA replication (Dean, W.L. (31) 43)

Sea urchin embryo

CAM; Cadherin; Uvomorulin (Ait-Ahmed, O. (31) 67)

Serotonin

Pineal gland; Opsin; Norepinephrine; Cell culture; Rat (Araki, M. (31) 129)

Sexual cell fusion

Membrane protein; Affinity chromatography; *Dictyostelium discoideum* (Ishikawa, T.-o. (31) 177)

[³⁵S]Methionine effect

Protein profile; Preimplantation embryo (hamster); Embryo development (Seshagiri, P.B. (31) 161)

Smooth muscle

Basement membrane; Lectin histochemistry; Lung; Rat; Embryo; Immunohistochemistry (Honda, T. (31) 31)

sp96

Spore coat protein gene; *Dictyostelium* (Tasaka, M. (31) 1)

Spore coat protein gene

Dictyostelium; sp96 (Tasaka, M. (31) 1)

Testis

Gonadal ridge; Meiosis; Germ cell; Oocyte; Ovary (McLaren, A. (31) 185)

Tight junction

HT29 cell; Cell differentiation; Embryo; Colon; Intra- and Intercellular lumina (Hekmati, M. (31) 207)

Transcription

Dictyostelium discoideum; Prespore gene; cAMP; mRNA stability (Takemoto, K. (31) 89)

Transdifferentiation

Retina; Lens; δ -Crystallin; FGF (Karim, S.A.M. (31) 169)

Translational control

Xenopus laevis; Oocyte maturation; Protein synthesis (Smith, R.C. (31) 97)

Urea

Cuticle protein; Low molecular weight protein; Development; *Dacus oleae* (Souliotis, V.L. (31) 23)

Uvomorulin

CAM; Cadherin; Sea urchin embryo (Aït-Ahmed, O. (31) 67)

Xenopus laevis

Oocyte maturation; Protein synthesis; Translational control (Smith, R.C. (31) 97)

Protein synthesis; Oocyte maturation; Cell stimulation; Meiosis reinitiation (Charbonneau, M. (31) 197)

***yema* gene**

Drosophila; Maternal expression; Neurogenesis; Cell proliferation; Cell differentiation (Aït-Ahmed, O. (31) 53)

